



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Lab ID : CP-2018-04-03-07

Date: 07-04-18

Sample ID No : 2018-04-03-07 /07

DIMENSION ANALYSIS

SLNo	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	150	203	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	400	152	202	
3	401	151	202	
4	400	151	199	
5	402	151	203	
6	399	152	201	
7	403	151	202	
8	401	152	199	
9	401	152	203	
10	400	153	202	
11	403	151	200	
12	404	152	201	
13	403	149	201	
14	404	152	200	
15	404	149	201	
16	402	152	201	
17	403	153	202	
18	402	150	200	
19	399	149	200	
20	402	150	200	
Average of 20	402	151	201	

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COMPRESSIVE STRENGTH:

SL No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	404	150	60438	245.8	4.1	4.4
2	400	152	60565	279.8	4.6	
3	401	151	60427	258.1	4.3	
4	400	151	60435	263.4	4.4	
5	402	151	60802	286.7	4.7	
6	399	152	60699	244.5	4.0	
7	403	151	60659	281.3	4.6	
8	401	152	60857	249.8	4.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

Note:

The results pertain to the samples received and tested.
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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-13-05
 Customer : Assistant Executive Engineer, Project Division, BBMP, Bangalore.
 Address : Project Division, BBMP, Bangalore.
 Project Name : Providing Granite Benches in Ward No.04.
 Agency : Technical Manager (West), KRIDL, Bangalore.
 Customer's Reference : EE(Project)/YnkZone/Wo/205/17-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 13-04-18
 Sample ID No : 2018-04-13-05 /01
 Customer ID : M20 Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 7 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
 Date of test : 17/04/2018

Date: 17/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	10/04/2018	17/04/2018	151.85 X 149.07 X 149.83	22637	8.501	427.2	18.9	18.8
2	M20 Concrete	M20	10/04/2018	17/04/2018	151.33 X 149.51 X 150.91	22626	8.482	420.6	18.6	
3	M20 Concrete	M20	10/04/2018	17/04/2018	149.01 X 150.99 X 151.12	22499	8.185	424.7	18.9	

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 Agency : Technical Manager (West), KRIDL, Bangalore.
 Customer's Reference : EE(Project)/YnkZone/Wo/205/17-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 13-04-18
 Sample ID No : 2018-04-13-05 /02
 Customer ID : M20 Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 28 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 08/05/2018

Date of test : 08/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	10/04/2018	08/05/2018	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	M20 Concrete	M20	10/04/2018	08/05/2018	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	M20 Concrete	M20	10/04/2018	08/05/2018	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

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Date of test : 17/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	10/04/2018	17/04/2018	151.68 X 150.53 X 150.85	22832	8.470	412.9	18.1	18.3
2	M20 Concrete	M20	10/04/2018	17/04/2018	151.04 X 149.40 X 149.69	22564	8.151	420.8	18.6	
3	M20 Concrete	M20	10/04/2018	17/04/2018	149.36 X 150.54 X 150.60	22486	8.247	410.3	18.2	

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 Sample ID No : 2018-04-13-05 /04
 Customer ID : M20 Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 28 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
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1	M20 Concrete	M20	10/04/2018	08/05/2018	149.33 X 151.22 X 150.37	22582	8.048	526.7	23.3	22.9
2	M20 Concrete	M20	10/04/2018	08/05/2018	151.83 X 149.29 X 149.58	22666	8.531	500.4	22.1	
3	M20 Concrete	M20	10/04/2018	08/05/2018	150.21 X 151.76 X 150.60	22796	8.238	533.1	23.4	

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